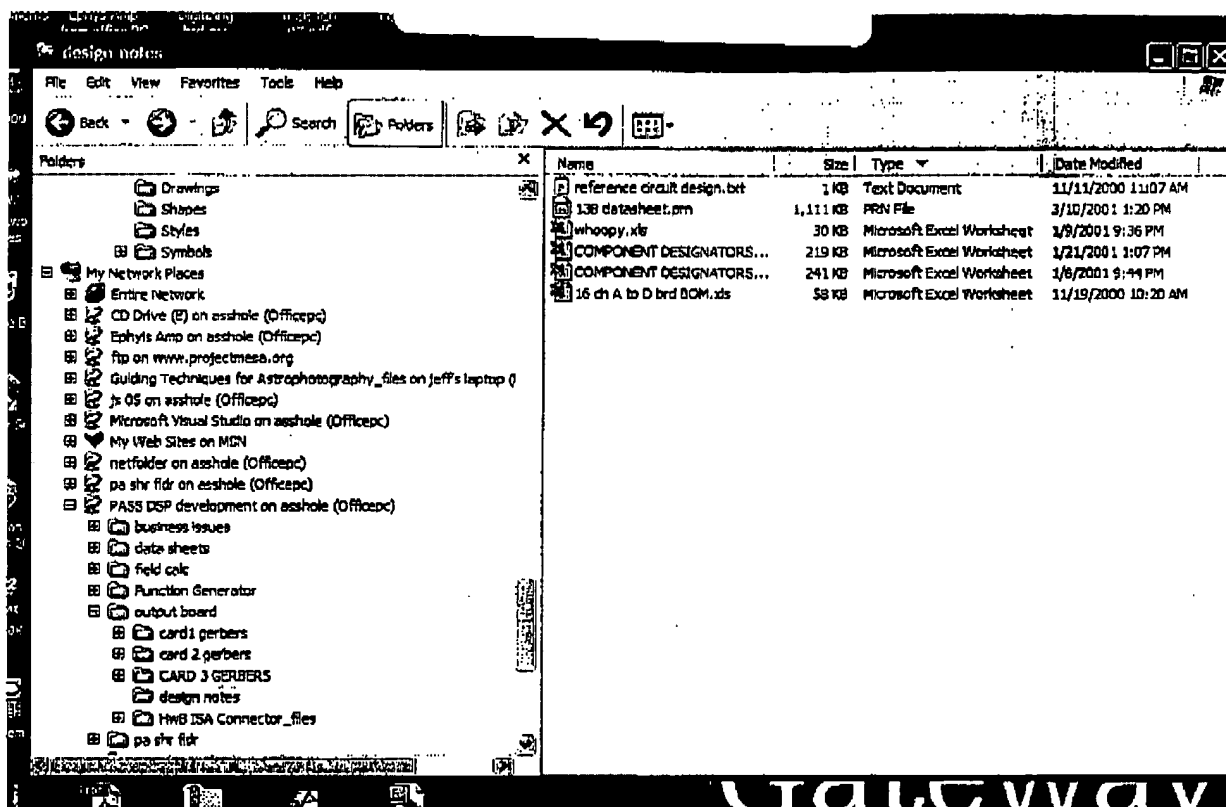


Exhibit O

Exhibit O



Page 1

Page 2

Module2 - 1

Top of the module

Option Explicit

Page 2

```

Begin procedure
Sub FindDesignatorLocation()
    Dim Caps As Range, Res As Range, ICs As Range, Pots As Range
    Dim Loc As Integer, theRow As Integer, rows_down As Integer
    Dim Cols_over As Integer, theCol As Integer

    Dim Component As String

    Set Caps = Range(Worksheets(4).Cells(6, 4), Worksheets(4).Cells(15, 19))
    Set Res = Range(Worksheets(4).Cells(16, 4), Worksheets(4).Cells(21, 19))
    Set ICs = Range(Worksheets(4).Cells(22, 4), Worksheets(4).Cells(25, 19))
    Set Pots = Range(Worksheets(4).Cells(26, 4), Worksheets(4).Cells(26, 19))

    For theRow = 3 To 356
        Component = Worksheets(3).Cells(theRow, 12)
        Select Case Component
            Case "C"
                Loc = Location_in_the_Range(Caps, Worksheets(3).Cells(theRow, 13))
                rows_down = ((Loc - 1) \ 16) + 6
                Cols_over = (Loc - (((Loc - 1) \ 16) * 16)) + 3
            Case "R"
                Loc = Location_in_the_Range(Res, Worksheets(3).Cells(theRow, 13))
                rows_down = ((Loc - 1) \ 16) + 16
                Cols_over = (Loc - (((Loc - 1) \ 16) * 16)) + 3
            Case "U"
                Loc = Location_in_the_Range(ICs, Worksheets(3).Cells(theRow, 13))
                rows_down = ((Loc - 1) \ 16) + 22
                Cols_over = (Loc - (((Loc - 1) \ 16) * 16)) + 3
            Case "VR"
                Loc = Location_in_the_Range(Pots, Worksheets(3).Cells(theRow, 13))
                rows_down = ((Loc - 1) \ 16) + 26
                Cols_over = (Loc - (((Loc - 1) \ 16) * 16)) + 3
            Case Else
                rows_down = 2
                Cols_over = 2
        End Select

        For theCol = 3 To 8
            Worksheets(3).Cells(theRow, theCol) = Worksheets(theCol + 2).Cells(rows_down, Cols_over)
        Next theCol
        Worksheets(3).Cells(theRow, 10) = Worksheets(11).Cells(rows_down, Cols_over)
    Next theRow
End Sub

```

```

Function Location_in_the_Range(RangeToSearch As Range, SearchValue As Integer) As Integer

```

```

    Dim Found As Boolean
    Dim Counter As Integer
    Dim C As Range

```

```

    Found = False
    For Each C In RangeToSearch
        Counter = Counter + 1
    Next C

```

Module2 - 2

```
    If C.Value = SearchValue Then
        Found = True
        Exit For 'Stop counting and testing
    End If
Next C
If Found Then
    Location_in_the_Range = Counter
Else
    Location_in_the_Range = 0
End If

End Function
```

Page 3

Page 4

Designator	Pattern	Mid X	Mid Y	Ref X	Ref Y	Pad X	Pad Y	TB
C1	RB.14/.35	8120.002	6608.864	8050.002	6608.864	8190.002	6608.864	T
C10	RB.14/.35	17780	4053.864	17710	4053.864	17850	4053.864	T
C100	cerdisk.25	8524.998	4129.136	8649.998	4129.097	8649.998	4209.175	T
C101	cerdisk.25	9820.864	4514.998	9820.903	4639.998	9740.825	4639.998	T
C102	cerdisk.25	10135	4129.136	10260	4129.097	10260	4209.175	T
C103	cerdisk.25	11430.86	4514.998	11430.9	4639.998	11350.83	4639.998	T
C104	cerdisk.25	11745	4129.136	11870	4129.097	11870	4209.175	T
C105	cerdisk.25	13040.86	4514.998	13040.9	4639.998			T
C106	cerdisk.25	13355	4129.136	13480	4129.097			T
C107	cerdisk.25	14650.86	4514.998	14650.9	4639.998			T
C108	cerdisk.25	14965	4129.136	16090	4129.097			T
C109	cerdisk.25	16260.86	4514.998	16260.9	4639.998			T
C11	RB.14/.35	12950	4053.864	12880	4053.864			T
C110	cerdisk.25	16575	4129.136	16700	4129.097	16700	4209.175	T
C111	cerdisk.25	17870.88	4514.998	17870.9	4639.998	17790.83	4639.998	T
C112	cerdisk.25	18185	4129.136	18310	4129.097	18310	4209.175	T
C113	cerdisk.25	7554.194	8520.001	7554.155	8395.001	7634.233	8395.001	T
C114	cerdisk.25	9164.194	8520.001	9164.155	8395.001	9244.233	8395.001	T
C115	cerdisk.25	10774.19	8520.001	10774.16	8395.001	10854.23	8395.001	T
C116	cerdisk.25	12384.19	8520.001	12384.16	8395.001	12464.23	8395.001	T
C117	cerdisk.25	13994.19	8520.001	13994.16	8395.001	14074.23	8395.001	T
C118	cerdisk.25	15604.19	8520.001	15604.16	8395.001	15684.23	8395.001	T
C119	cerdisk.25	17214.19	8520.001	17214.16	8395.001	17294.23	8395.001	T
C12	RB.14/.35	9730.002	4053.864	9660.002	4053.864	9800.002	4053.864	T
C120	cerdisk.25	18824.19	8520.001	18824.16	8395.001	18904.23	8395.001	T
C121	cerdisk.25	7554.194	5965.001	7554.155	5840.001	7634.233	5840.001	T
C122	cerdisk.25	9164.194	5965.001	9164.155	5840.001	9244.233	5840.001	T
C123	cerdisk.25	10774.19	5965.001	10774.16	5840.001	10854.23	5840.001	T
C124	cerdisk.25	12384.19	5965.001	12384.16	5840.001	12464.23	5840.001	T
C125	cerdisk.25	13994.19	5965.001	13994.16	5840.001	14074.23	5840.001	T
C126	cerdisk.25	15604.19	5965.001	15604.16	5840.001	15684.23	5840.001	T
C127	cerdisk.25	17214.19	5965.001	17214.16	5840.001	17294.23	5840.001	T
C128	cerdisk.25	18824.19	5965.001	18824.16	5840.001	18904.23	5840.001	T
C129	cerdisk.25	9389.194	7500.004	9389.155	7375.004	9469.233	7375.004	T
C13	RB.14/.35	6510.002	4053.864	6440.002	4053.864	6580.002	4053.864	T
C130	cerdisk.25	19049.19	4945.004	19049.16	4820.004	19129.23	4820.004	T
C131	cerdisk.25	14219.19	4945.004	14219.16	4820.004	14299.23	4820.004	T
C132	cerdisk.25	10999.19	4945.004	10999.16	4820.004	11079.23	4820.004	T
C133	cerdisk.25	7779.194	4945.004	7779.155	4820.004	7859.233	4820.004	T
C134	cerdisk.25	17439.19	7500.004	17439.16	7375.004	17519.23	7375.004	T
C135	cerdisk.25	14219.19	7500.004	14219.16	7375.004	14299.23	7375.004	T
C136	cerdisk.25	10999.19	7500.004	10999.16	7375.004	11079.23	7375.004	T
C137	cerdisk.25	7779.194	7500.004	7779.155	7375.004	7859.233	7375.004	T
C138	cerdisk.25	17439.19	4945.004	17439.16	4820.004	17519.23	4820.004	T
C139	cerdisk.25	15829.19	4945.004	15829.16	4820.004	15909.23	4820.004	T
C14	RB.14/.35	16170	6608.864	16100	6608.864	16240	6608.864	T
C140	cerdisk.25	12609.19	4945.004	12609.16	4820.004	12689.23	4820.004	T
C141	cerdisk.25	9389.194	4945.004	9389.155	4820.004	9469.233	4820.004	T
C142	cerdisk.25	19049.19	7500.004	19049.16	7375.004	19129.23	7375.004	T
C143	cerdisk.25	15829.19	7500.004	15829.16	7375.004	15909.23	7375.004	T

Page 4